FI16641-01-1-C1
GROUP NUMBER CLASSIFICATION

This is to certify that the specimen described below was tested by BRANZ in accordance with AS ISO 9705 – 2003 and ISO 9705:1993 for determination of Group Number Classification.

Test Sponsor

EPS Foam (NZ) Limited
80B Hunua Road
Papakura
Auckland, 2244
New Zealand

Date of test

6 October 2022

Reference BRANZ Test Report

FI16641-01-1 – issued 29 November 2022

Test specimen as described by the client: EPS Insulated Panels – 100 mm thick steel skinned (0.6 mm BMT) polystyrene (EPS) foam cored sandwich panel with interlocking edge.

Thickness: 100 mm, Module Width: 1,200 mm, Weight: 12 kg/m², Density (foam): 16 kg/m³

Group Number Classification in accordance with the New Zealand Building Code

Calculations were carried out according to NZBC Verification Method C/VM2 Appendix A. The classification for the sample as described above is given in the table below.

Group Number Classification in accordance with the NCC Australia

Calculations were carried out as per AS 5637.1:2015. The Group Number Classification and $SMOGRA_{RC}$ for the sample as described above is given in the table below.

Determination of Fire Hazard Properties

The specimen was deemed suitable for testing in accordance with AS 5637.1:2015 and testing was performed in accordance with AS ISO 9705 – 2003 for the purposes of Group Number Classification. The test specimen comprised three walls and ceiling of the test room.

Building Code Document	Group Number Classification
NZBC Verification Method C/VM2 Appendix A: Framework for Fire Safety Design (2020)	2-S Average Smoke Production Rate was 0.2 m^2/s and therefore within the 5 m^2/s limit
NCC 2019 Volume One Specification C1.10 Clause 4 determined in accordance with AS 5637.1 (2015)	2 The $SMOGRA_{RC}$ was 10 m^2/s^2 x 1000 and therefore within the 100 m^2/s^2 x 1000 limit
NCC 2022 Volume One Specification S7C4 determined in accordance with AS 5637.1 (2015)	

Issued by

L. F. Hersche
Fire Testing Engineer

Issue Date
29 November 2022

Reviewed and approved for release by

E. Soja
Senior Fire Safety Engineer

Expiry Date
29 November 2027

Regulatory authorities are advised to examine test reports before approving any product.

All tests and procedures reported herein, unless indicated, have been performed in accordance with the laboratory's scope of accreditation